

FORM PTO-1449
(Rev. 7-80)U.S. Department of Commerce
Patent and Trademark OfficeAttorney Docket No.
TESSERA 3.3-018 CONT
CONT 2 DIVSerial No.
03/484,615
UNASSIGNED

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

Applicant
Khandros et alFiling Date
Herewith

Group

U.S. PATENT DOCUMENTS

*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVC	AA	T955,008	2/77	Gregor, et al.	/	/	
SVC	AB	3,823,467	7/74	Shamash, et al.	/	/	
SVC	AC	3,825,353	7/74	Loro	/	/	
SVC	AD	3,952,404	4/76	Matunami	/	/	
SVC	AE	4,189,825	2/26/80	Robillard, et al.	/	/	
SVC	AF	4,349,862	9/82	Bajorek, et al.	/	/	
SVC	AG	4,536,469	8/83	Alderstein	/	/	
SVC	AH	4,648,179	3/87	Bhattacharyya, et al.	/	/	
SVC	AI	4,655,524	4/87	Etzel	/	/	
SVC	AJ	4,658,332	4/1987	Baker, et al.	/	/	
	AK	4,681,654	7/87	Clementi, et al.	/	/	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
SVC	AL	080041	9/22/82	Europat	/	/		
SVC	AM	072673	8/12/82	Europat (A2)	/	/		
SVC	AN	072673	8/12/82	Europat (A3)	/	/		
SVC	AO	413451	7/23/90	Europat	/	/		
SVC	AP	2,495,839	12/7/81	France	/	/		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SVC	AR		IBM Technical Disclosure Bulletin entitled "Non-Permanent Mounting Technique for Test and Burn-In of C4 Devices", November 1990, Vol. 33, No. 7					
SVC	AS		IBM Technical Disclosure Bulletin, entitled "Extended Pad For Testing Package Parts", December 1984, Vol. 27, No. 7B.					
SVC	AT		IBM Technical Disclosure Bulletin entitled "Test and Repair of Direct Ship Attach Modules, August 1988, Vol. 31, No. 3.					

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SVC	AA	4,695,870	9/87	Patraw	—	—	
SVC	AB	4,700,473	10/87	Freyman, et al.	—	—	
SVC	AC	4,766,670	8/88	Godzik, et al.	—	—	
SVC	AD	4,772,936	9/20/88	Reding, et al.	—	—	
SC	AE	4,783,695	11/88	Eichelberger, et al.	—	—	
SC	AF	4,847,146	7/89	Yeh, et al.	—	—	
SC	AG	4,855,872	8/89	Wojner, et al.	—	—	
SC	AH	4,860,088	8/89	Smith, et al.	—	—	
SVC	AI	4,866,841	9/89	Hubbard	—	—	
SVC	AJ	4,890,157	12/89	Wilson	—	—	
SVC	AK	4,893,172	1/90	Matsumoto, et al.	—	—	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
SC	AL	2,586,885	8/86	France	—	—		
SC	AM	8910005	10/19/89	PCT	—	—		
SC	AN	91112706	8/22/91	PCT	—	—		
SC	AO	1-293,528		Japan	—	—		
SC	AP	60-217,641		Japan	—	—		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SVC	AR		IBM Technical Disclosure Bulletin entitled "Design For Minimum Chip Joint Street", December 1989, Vol. 32, No. 7.
SVC	AS		IBM Technical Disclosure Bulletin entitled "Improved C4 Reliability Using Low Modulus Dielectric Layer, November 1989, Vol. 32, No. 6A.
	AT		

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U.S. PATENT DOCUMENTS

*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SL	AA	4,954,878	9/90	Fox, et al.	—	—	
SL	AB	4,975,765	12/90	Ackermann, et al.	—	—	
SL	AC	4,993,954	2/91	Provost	—	—	
SL	AD	5,006,673	4/91	Freyman, et al.	—	—	
SL	AE	5,023,205	6/91	Reche	—	—	
SL	AF	5,029,325	7/91	Higgins, III., et al.	—	—	
SL	AG	5,055,907	10/91	Jacobs	—	—	
SL	AH	5,086,337	2/92	Noro, et al.	—	—	
SL	AI	5,117,275	5/92	Bregman, et al.	—	—	
SL	AJ	5,192,716	3/93	Jacoby	—	—	
SL	AK	5,217,916	6/93	Anderson, et al.	—	—	

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U.S. PATENT DOCUMENTS

*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SL	AA	5,346,861	9/94	Khandros, et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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FORM PTO-1449 (Rev. 7-80)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. TESSERA 3.3-018 CONT CONT 2 DIV		Serial No. 08/984,615		
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APR 07 1998 TRADEMARK OFFICE		Applicant Khandros et al.		
				Filing Date December 3, 1997		Group 3206		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
SVC	AA	3,302,067	1/31/67	Jackson et al.	—	—		
SVC	AB	3,390,308	6/25/68	Marley	—	—		
SVC	AC	3,426,252	2/4/69	Lepselter	—	—		
SVC	AD	3,474,297	10/21/69	Bylander	—	—		
SVC	AE	3,487,541	1/6/70	Boswell	—	—		
SVC	AF	3,611,061	10-7/771	Segerman	—	—		
SVC	AG	3,614,832	10/26/71	Chance et al.	—	—		
SVC	AH	3,680,037	7/25/72	Nellis et al.	—	—		
SVC	AI	3,680,206	8/1/72	Roberts	—	—		
SVC	AJ	3,683,105	8/8/72	Shamash et al.	—	—		
SVC	AK	3,689,991	9/12/72	Aird	—	—		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
SVC	AL	2405839	12/1981	France	—	—		x
SVC	AM	245179	2/14/95	Europat	—	—		
SVC	AN	WO 89/12911	12/28/89	W.I.P.O.	—	—		
SVC	AO	1-155633	6/1989	Japan	—	—	x	
SVC	AP	1003396	3/1983	USSR	—	—	x	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
SVC	AR		Nitto Product Information. "New Tab Mounting Method".					
			IBM Technical Disclosure Bulletin. Jan. 1985, vol. 27, No. 9, p. 4855.					
SVC	AS		IBM Technical Disclosure Bulletin. "Non-Permanent Mounting Technique for Test and Burn-In of C4 Devices". Nov. 1990, vol. 33, No. 7.					
			IBM Technical Disclosure Bulletin. "Extended Pad for Testing Package Parts". Dec. 1984, vol. 27, No. 7B, pp. 4210-4211.					
SVC	AT		IBM Technical Disclosure Bulletin. "Test and Repair of Direct Chip Attach Modules". Aug. 1988, vol. 31, No. 3					
			Microelectronics Packaging Handbook, 1989, pp. 420-423, 1132. Rao R. Tummala and Eugene J. Rymaszewski.					
EXAMINER S. Clark				DATE CONSIDERED 6/20/98				
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U.S. PATENT DOCUMENTS							
*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVC	AA	3,724,068	4/3/73	Galli	—	—	
SVC	AB	3,772,575	11/3/73	Hegarty et al.	—	—	
SVC	AC	3,795,037	3/5/74	Luttmer	—	—	
SVC	AD	3,832,769	9/3/74	Olyphant Jr. et al.	—	—	
SVC	AE	3,862,790	1/28/75	Davies et al.	—	—	
SVC	AF	3,864,728	2/4/75	Peltz et al.	—	—	
SVC	AG	3,868,724	2/25/75	Perrino	—	—	
SVC	AH	4,179,802	12/25/79	Joshi et al.	—	—	
SVC	AI	4,237,607	12/9/80	Ohno	—	—	
SVC	AJ	4,356,374	10/26/82	Noyori et al.	—	—	
SVC	AK	4,410,905	10/18/83	Grabbe	—	—	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
SVC	AL	072673	8/1982	Europat	—	—	
SVC	AM	080041	9/1982	Europat	—	—	
SVC	AN	413451	7/1990	Europat	—	—	
SVC	AO	2495839	12/1981	France	—	—	
SVC	AP	2586885	8/1996	France	—	—	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
SVC	AR		IBM Technical Disclosure Bulletin entitled "Non-Permanent Mounting Technique for Test and Burn-In of C4 Devices", Nov. 1990, vol. 33, No. 7.				
			IBM Technical Disclosure Bulletin entitled "Extended Pad For Testing Package Parts", Dec. 1984, vol. 27, No. 7B.				
SVC	AS		IBM Technical Disclosure Bulletin entitled "Test And Repair of Direct Chip Attach Modules", Aug. 1988, vol. 31, No. 3.				
			"Improved C4 Reliability Using Low Modulus Dielectric Layer", IBM Technical Disclosure bulletin, vol. 32, No. 6A, Nov. 1989.				
SVC	AT		"Methods of Testing Chips and Joining Chips to Substrates," 2244 Research Disclosure, February 1991, Elmsworth, GB, 32290				
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U.S. PATENT DOCUMENTS							
*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SVC	AA	4,437,141	3/13/84	Prokop	—	—	
SVC	AB	4,545,610	10/8/95	Lakritz et al.	—	—	
SVC	AC	4,574,470	3/11/86	Burt	—	—	
SVC	AD	4,597,617	7/1/86	Enochs	—	—	
SVC	AE	4,604,644	8/5/86	Beckham et al.	—	—	
SVC	AF	4,627,151	12/9/86	Mulholland et al.	—	—	
SVC	AG	4,628,406	12/9/86	Smith et al.	—	—	
SVC	AH	4,649,415	3/10/87	Hebert	—	—	
SVC	AI	4,667,220	5/19/87	Lee et al.	—	—	
SVC	AJ	4,670,770	6/2/87	Tai	—	—	
SVC	AK	4,685,998	8/11/87	Quinn, Daniel J. et al.	—	—	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
SVC	AL	60-217641	10/1985	Japan	—	—	
SVC	AM	1-293528	11/1989	Japan	—	—	
SVC	AN	8910005	10/1989	WIPO	—	—	
AC	AO	9112706	8/1991	WIPO	—	—	
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U.S. PATENT DOCUMENTS							
*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SVL	AA	4,709,468	12/1/87	Wilson	—	—	
SVL	AB	4,710,798	12/1/87	Marcantonio	—	—	
SVL	AC	4,721,993	1/26/88	Walter	—	—	
SVL	AD	4,751,199	6/14/88	Phy	—	—	
SVL	AE	4,751,482	6/14/88	Fukuta et al.	—	—	
SVL	AF	4,764,804	8/16/88	Sahara et al.	—	—	
SVL	AG	4,793,814	12/27/88	Zifcak et al.	—	—	
SVL	AH	4,796,078	1/3/89	Phelps, Jr. et al.	—	—	
SVL	AI	4,811,082	3/7/89	Jacobs et al.	—	—	
SVL	AJ	4,814,295	3/21/89	Mehta	—	—	
SVL	AK	4,818,728	4/4/89	Rai et al.	—	—	
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SVC	AA	4,842,662	6/27/89	Jacobi	—	—	
SVC	AB	4,855,867	8/8/89	Gazdik et al.	—	—	
SVC	AC	4,874,721	10/17/89	Kimura et al.	—	—	
SVC	AD	4,878,098	10/31/89	Saito et al.	—	—	
SVC	AE	4,884,122	11/28/89	Eichelberger et al.	—	—	
SVC	AF	4,887,148	12/12/89	Mu	—	—	
SVC	AG	4,918,811	4/24/90	Eichelberger et al.	—	—	
SVC	AH	4,924,353	5/3/90	Patraw	—	—	
SVC	AI	4,926,241	5/15/90	Carey	—	—	
SVC	AJ	4,937,203	6/26/90	Eichelberger et al.	—	—	
SVC	AK	4,937,707	6/29/90	McBride et al.	—	—	
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SVC	AA	4,941,033	7/10/90	Kishida	—	—	
SVC	AB	4,942,140	7/17/90	Ootsuki et al.	—	—	
SVC	AC	4,967,261	10/30/90	Niki et al.	—	—	
SVC	AD	4,989,069	1/29/91	Hawkins	—	—	
SVC	AE	5,019,673	5/28/91	Juskey et al.	—	—	
SVC	AF	5,027,191	6/25/91	Bourdelaie et al.	—	—	
SVC	AG	5,045,921	9/3/91	Lin et al.	—	—	
SVC	AH	5,045,922	9/3/91	Kodama et al.	—	—	
SVC	AI	5,053,922	10/1/91	Matta et al.	—	—	
SVC	AJ	5,123,850	6/23/92	Elder et al.	—	—	
SVC	AK	5,136,366	8/4/92	Worp et al.	—	—	

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SVL	AA	5,148,265	9/15/92	Khandros et al.	—	—	
SVL	AB	5,148,266	9/15/92	Khandros et al.	—	—	
SVL	AC	5,222,014	6/22/93	Lin	—	—	
SVL	AD	5,289,346	2/22/94	Carey et al.	—	—	
SVL	AE	5,347,159	9/13/94	Khandros et al.	—	—	
SVL	AF	5,350,947	9/27/94	Takekawa, et al.	—	—	
SVL	AG	5,379,191	1/3/95	Carey et al.	—	—	
SVL	AH	5,414,298	5/9/95	Grube et al.	—	—	
SVL	AI	5,282,312	2/1/94	DiStefano et al.	—	—	
SVL	AJ	5,518,964	5/21/96	DiStefano et al.	—	—	
SVL	AK	4,783,719	11/8/88	Jamison et al.	—	—	

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				Filing Date December 3, 1997		Group 3206		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SVC	AA	3,952,404	4/27/76	Matunami	—	—	/	
SVC	AB	5,637,919	6/10/97	Grabbe	—	—		
SVC	AC	5,504,035	4/2/96	Rostoker et al.	—	—		
SVC	AD	5,477,082	12/19/95	Buckley, III et al.	—	—		
SVC	AE	5,454,160	10/3/95	Nickel	—	—		
SVC	AF	5,394,009	2/28/95	Loo	—	—		
SVC	AG	5,227,583	7/13/93	Jones	—	—		
SVC	AH	3,823,467	7/94-74	Shamash et al.	—	—		
SVC	AI	4,189,825	2/80	Robillard et al.	—	—		
SVC	AJ	4,349,862	9/82	Bajorek et al.	—	—		
SVC	AK	4,655,524	4/87	Etzel	—	—		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	AL						YES	NO
	AM							
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
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EXAMINER			DATE CONSIDERED					
S. Clark			6-12-98					
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.</p>								

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LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>					APR 07 1998 PATENT & TRADEMARK OFFICE		Applicant Khandros et al.	
					Filing Date December 3, 1997		Group 3206	
U.S. PATENT DOCUMENTS								
*EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SVC	AA	4,658,332	4/87	Baker et al.	—	—		
SVC	AB	4,681,654	7/87	Clementi et al.	—	—		
SVC	AC	4,695,870	9/87	Patraw	—	—		
SVC	AD	4,700,473	10/87	Freyman et al.	—	—		
SVC	AE	4,772,936	9/88	Reding et al.	—	—		
SVC	AF	4,847,146	7/89	Yeh et al.	—	—		
SVC	AG	4,855,872	8/89	Wojnar et al.	—	—		
SVC	AH	4,860,088	8/89	Smith et al.	—	—		
SVC	AI	4,866,841	9/89	Hubbard	—	—		
SVC	AJ	4,893,172	1/90	Matsumoto et al.	—	—		
SVC	AK	4,954,878	9/90	Fox et al.	—	—		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AL							
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
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EXAMINER J. Clark				DATE CONSIDERED 6-20-98				
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LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APR 07 1998 U.S. PATENT & TRADEMARK SERVICE		Applicant Khandros et al.	
				Filing Date December 3, 1997		Group 3206	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SVL	AA	4,975,765	12/90	Ackermann et al.	—	—	
SVL	AB	4,993,954	2/91	Prevost	—	—	
SVL	AC	5,006,673	4/91	Freyman et al.	—	—	
SVL	AD	5,029,325	7/91	Higgins, III et al.	—	—	
SVL	AE	5,086,337	2/92	Noro et al.	—	—	
SVL	AF	5,117,275	5/92	Bregman	—	—	
SVL	AG	Re. 35,119	12/12/93	Blonder et al.	—	—	
SVL	AH	4,937,653	6/26/90	Blonder et al.	—	—	
SVL	AI	5,210,939	5/18/93	Mallik et al.	—	—	
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS								
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION			
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AM								
AN								
AO								
AP								

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
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AT			

EXAMINER S. Clark	DATE CONSIDERED 6-20-98
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